Mobile's Role in the 2012 Flection Microsoft's App Blitz LAPD Drops Google Cloud Plan

COMPUTERWORLD

Peer Perspective, IT Leadership, Business Results, 1 COMPUTERWORLD.COM : JANUARY 9, 2012

Self-Service

Sci vice 2

Empowering users with do-it-yourself tools is all the rage in IT these days. What could possibly go wrong?

G852 H003

PO BOX 998 NW ARBOR MI 48106-0998

NA PUBLISHING, INC. 6

 Smarter technology for a Smarter Planet:

Most boats are moved by propellers. This one was moved by intelligence.

There are thousands of different types of boats, but to a boat dealer, there are really just two: boats that have been sold and boats that have it will remember. The world's largest boat intake us using Cognor's brainess arealytics software to make use its boats aren't larguaishing in obsorooms. In triple is bottom free. By better aligning inventory decisions with outsomer demand. MarineMax reduced its planning cycle from 3 months to 3 weeks, cut costs by 48% and utilimately moved more boats A surprise plant is but in on arealm's coffware sections and services.

Let's build a smarter planet, ibm.com/insights





COMPUTERWORI D

492 Old Connecticut Path Framingham, MA 01701-9171 (508) 879-0700

3) EDITORIAL Selliter in Chief

Scot Finnie

Julia King (events)

Johanna Ambrosio (technolos Ellen Fanning (features). Sharon Machiis (online).

Ken Mingis (news), Bob Rawson (produ

Valerie Potter (features)

Director of Bloom Joyce Carpenter

April Mortgomery res Editors

Barbara Krasnoff (reviews). Tracy Mayor

Mike Bucken, Marian Prokop al Corres Julia King, Robert L. Mitchell

Sharon Gaudin, Matt Harr Gregg Keizer, Lucas Mearian,

Patrick Thibodeau, tailosmar Vilavan Copy Editor

Christina Collins rial Project

Mari Keefe

Jamie Eckle, Preston Graffa, IR Raphael

Phone numbers, email addr and reporters' beats are avail online at Compu (see Contacts link at the bottom of the home page).

tters to the Editor Send to letters@computerworld. mber for immediate verification. Letters will be edited for brevity

and clarity.

terworld.com s and back in 88) 559-7327, cw@omeda.com

The YGS Group, (800) 290-5460, ext. 100, computerworld@

THIS ISSUE | 01.09.2012 [VOL. 46, NO. 1 \$5/COPY]



COVER STORY

Self-service IT

ring users with do-it-yourself tools is all the rage in IT these days. What could possibly go wrong?

Grow Your Data Center With Colocation

21 It's quicker and a lot less expensive than building your own facility.

IT Staffers Shed 1.500 Pounds

25 Kaiser Permanente's 'CIO Challenge' pumps up IT morale white promoting healthier lifestyles.

HEADS UP | 2 IBM tools track pigs all the way to the dinner table. I Hard drive makers shorten their product warranties, I 4 Some big IT vendors are patching laggards. | MIT builds a chip that models a brain synapse.

NEWS ANALYSIS

6 Security concerns force

the LAPO to forgo Google Apps. | 8 Mobile technology could play a key role in this too late. year's election.

OPINIONS

14 Preston Gralla thinks Microsoft's year-end app blitz bodes well for the company's future. | 32 Steven J.

Microsoft is finally making good products - but it's

DEDARTMENTS 10 The Grill: Healthcare

CIO Indranil Ganguly | 27 Security Manager's Journal: BYOD project gets a big boost. | 28 Career Watch | 31 Shark Tank

HeadsUp



EMERGING TECHNOLOGY

IBM Tracks Pork Chops From Pig to Plate

EAT SUPPLIERS can track a single pig all the way from live animal to pork chop, thanks to new technology from IBM that may limit or prevent disease outbreaks.

Pige are identified with a barcoded ear tag. That tag belps track various pig parts as they pass through the slaughterbouse and on to the processing plant, the distribution center and finally the package in a grocer's case. Some trial systems are being installed

some that systems are been instances in in slaughterhouses and retail stores in the Chinese province of Shandong, China's interest stems from an outbreak of but-ear pig disease from 2006 to 2007. The illness doesn't affect humans, but at the time, it led to a pork shortage and sent prices soaring. There was worry that the disease could spread to other obes around the slobe.

IBM's algorithms analyze data and assess risk levels to try to quickly identify problems. For instance, the systems could categorize some shipments from certain suppliers as high

risk and then target inspection and testing resources to potential problem areas. Steven McOrist, a veterinary expert on pig at the University of Nottingham in England,

said that tags on pigs could help monitor the early stages of disease but that other diagnostic tools including blood tests "are still needed" to clarify the actual problem and help determine the

best solution.

"Ultimately, the holy grail of this exercise is if you can prevent an outbreak from happening," said Paul Chang, who leads global strategy for emerging technologies at IBM. — Patrick Thiodeou STORAGE

Hard Drive Makers Slash Warranties

in a bid to save money or redirect funds to product development. Seagate and Western Digital are cutting hard drive warranties — in some cases from the years to one. Seagate's warranties on certain drives were shortened as of Dec. 31, and Western Digital followed suit on Jan. 2. All drives shipped prior to those dates will continue to carry the warranty term in effect at the shipping time.

First reported by The Register, a London-based technology website, the reductions mean some of the vendors' most popular PC drives will no longer carry three- or fiveyear warranties.

Seagate said it is reducing warranty periods as a way to redirect cash flow to protect development. The vendor said there is no change in the warrandes of "mission-critical" enterprise drives including the Cheetah line. But warranty periods for the Momentus XT hybrid drive and nearline products including the Constitution 2 series are being cut from flow wars to there.

Warranties for some of Seagate's desktop and notebook drives, including the Barracuda, are being

cut from five years

Western Digital announced that it's cutting warranties for Cavlar Blue, Caviar Green and Scorpio Blue drives from three years to two, but it didn't

offer an explanation for the changes.

— LUCAS MEARIAN

THE DATA CENTER IS HERE

Electing the stress tooms pass through Blade saturate faircs as the past high-bandwidth application to the content of the content of the second

Brocade. The world leader in Ethernet fabrics.

Find out what Brocade customers already knot learn more at brocade.com/everywhere

BROCADE

HEADS UP

BETWEEN THE LINES

By John Klossner



SECURITY

Big IT Vendors Lead Patching Laggards

M. HEWLETT-PACKARD and Microsoft led the list of companies that failed to patch vulnerabilities after being notified by the world's largest bug-bounty program, according to the TippingPoint Zero-Day Initiative (ZDI).

During 2011, TippingPoint - a division of HP - released 20 "zero-day" advisories that had information about vulnerabilities the company had reported to IT vendors six or ore months earlier. Ten of the 20 were bugs in IBM software, six were in HP applications and five, later patched, were in Microsoft products.

Other vendors on the late-to-patch list included CA, Cisco and EMC.

TippingPoint, which sponsors the Pwn2Own hacking contest, buys information about vulnerabilities from independent security researchers and privately reports them to vendors. It uses the information to craft defenses for its own line of security appliances. In mid-2010, TippingPoint announced that it would go public with advisories that included

"limited details" of reported vulnerabilities if

vendors didn't patch them within six months. Timping Point released its first zero-day advisory on Feb. 7, 2011. Last year, TippingPoint said it was using the

six-month deadline to push software developers to release patches faster. "By releasing some information, it puts the spotlight on vendors," said Aaron Portnoy, the leader of TippingPoint's security research team.

Portnoy and Derek Brown, a ZDI researcher, said the pressure has worked, more or less. "We've seen a better response." Brown said. "If it doesn't look like they're making a commitment to patching, we release the information."

"It puts pressure on the vendors to patch their products, because the number of unpatched vulnerabilities can change the perce tion of the product's security," Portnoy argue As of late December, TippingPoint's inde pendent researchers generated 350 vulnerability reports, up 16% from 301 a year earlier.

- Gregg Keizer

Micro Burst

11%

TECH RESEARCH MIT Chip Models **Human Brain** Synanse

Forget artificial intelligence: researchers at MIT say they've figured out how to mimic the real deal. The egal is to registate how the brain learns new tasks. To do that, an MIT group has created a 400transistor processor that's designed to model a single brain synapse.

The two-neuron MIT chip can't scale to model a whole working brain: Human brains contain 100 billion neurons, each of which interacts with many others. But unlike past systems that were designed to "think" like computers - they were either on or off - the MIT chin allows current to flow in a stream that ebbs and flows, just like ions do in

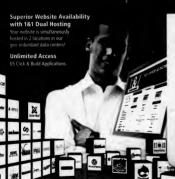
The researchers can "capture each and every ionic process that's going on in a neuron," said Chi-Sang Poon, the team's principal research scientist, in a story on the MIT website.

an actual brain cell.

The ability to mimic different types of processes is important. Researchers hope to use the chip to build systems that model specific neural functions, such as the visual processing system - a model of which could be used to build, say, an artificial retina. These systems might be faster than traditional computers - faster, even, than real human brains. Uh-oh.

- JOHANNA AMBROSIO

GREAT WEB HOSTING THE BEST VALUE SERIOUS BUSINESS



1&1 BUSINESS PACKAGE

- UNLIMITED Web Space
- UNLIMITED Traffic
- UNLIMITED E-mail Accounts
- UNLIMITED MySQL 5
- Databases (1 GB each)
- UNLIMITED 24/7 Support ■ FREE DOMAIN with Private Domain Registration

NOW 6 MONTHS

LUFF

Then \$9.99/month

YOUR PRIVACY IS IMPORTANT. WE AGREE.

That's why at 181, all domains come with FREE Private Domain Registration to protect your name, address, phone number and e-mail from spammers and identity thieves.





Get started today, call 1-877-461-2631

www.1and1.com



LAPD Drops Google Apps Plan

Los Angeles city officials determine that cloud services can't meet security requirements set for accessing a key FBI database. By Jaikumar Vijayan

.....

FTER MORE than two years of work, the city of Los Angeles last month abandoned plans to migrate its police operations to Google's hosted email and office applications because it says the service can't meet FBI security requirements.

applications because it says the service can't meet FBI security requirements.

The city council last month voted to amend a 2009 contract calling for Computer Sciences Corp. (CSC) to undertake a wholesale replacement of the city's GroupWise email system with

Google's email and collaboration services.

The amended pact cuts the Los Angeles Police Department and its nearly 13,000 employees out of the project; other agencies will continue the migration to Google Apps for Government.

The vote came last month after the city's chief legislative

analyst, Gerry Miller, and its chief administrative officer, Miguel Santana, determined that the Google service could not be brought into compliance with the FBI's Criminal Justice Information Systems (CJIS).

The updated pact requires that Google pay up to \$350,000 per year to maintain the LAPD's GroupWise licenses for the term of the CSC contract. Google will also substantially reduce the amount it charges for the rest of the city's use of Google Auos.

"Although CSC does not have the technical ability to comply with the City's security requirements, it should be noted that the DOJ requirements are not currently compatible with cloud computing," wrote Miller and Santana in a memo to council members.

The CJIS database is one of the world's largest repositories of criminal history records and fingerprints. Users must meet a strict set of security requirements in order to access the database.

The amendment doesn't specify how Google and CSC failed to comply with the requirements, though city officials have long expressed frustration about the project. For instance, Loc Angeles CTO Randi Levin a year ago blasted Google and CSC for repeatedly failing to meet deadlines for complying with security requirements.

In April, the Los Angeles Times reported that the city was considering suing Google and CSC over their delay in

implementing the CJIS security requirements. Google maintains that the LAPD's security requirements were never part of the original contract and were introduced only after the project was well underway.

In a statement, Google said: "We're disopointed that the City introduced requirements for the LAPD after the contract was signed that are, in its own words, 'currenty incompatible with cloud computing,' We realize this means the LAPD may not be ploining the 17000 other City employees successfully using Google Apps. Even so, Los Angeles taxpers have already saved more than two million dollars and the City expects to save millions more in the years abed?

Peerstone Research CEO Jeff Gould said that Google's problems may be due to FBI requirements that all IT contractor personnel pass a criminal background check and sign the FBI Security Addendum document. He theorized that European Union

laws could make it difficult to get Google Apps support workers based in Europe to submit to FBI screening and fingerprinting. Gould added that Google and CSC should have known what the requirements were because the CJIS policy document was in

effect when the contract was signed.

Matthew Cain, an analyst at Gartner, said federal security requirements could pose similar problems for other cloud vendors.

"Most mega-vendors utilize some offshore resources for development and operational reasons."

We're disappointed that the City attroduced requirements for the CAPA attack to contract one

SIMPLIFY

your move to the cloud, virtualization and big everything with HP Converged Storage.

Reduce cost and speed deployment with the power of server and storage convergence.

With HP storage, you can:

Sct your storage up and renting up to 45. Italies
 Reclaimment frat in time by 10 to 95.

Whither your debut oning a cloud without may write date renth it important ingly our applications or proporting to act in one efficiently with data archiving bit proported fat what sincert with HP Converged Storage. Storage the Movement of the Converged Storage.

See haw HP starage can eliminate boundaries between starage and the rest of IT. Watch the vide now at hp.com/storage/5CI

Or, scan this QR code with your mobile device.





Powerful. Intelligent



Mobile Tactics Could Be Key to 2012 Election

Analysts say candidates must improve their mobile tech plans to communicate with younger voters. By Matt Hamblen

IVEN THE EXPLOSIVE GROWTH in smartphone and tablet use over the past four years, campaign strategies for using mobile technologies could prove critical in the 2012 presidential election.

So far, analysts say, the candidates in both the Democratic and Republican parties are mostly focused on social networking and connecting to the electroate via desktop computers, apparently eschewing a stronger mobile focus until later on

in the campaign.

If the candidates aren't yet working hard on developing mobile campaign strategies, they'd better start soon, analysts say, as the 2012 election season begins in earnest this month with the lowa cancuruse and the New

Hampshire primary.
The campaigns of multiple candidates didn't respond to Computerworld's requests for information on their mobile technology plans.
Rob Enderle, an analyst for

Enderle Group, noted that many Americans under age 45 are heavy users of smartphones and tablet computers, and increasingly use them as portals to Facebook, Twitter and other social networks.

"Candidates need a good social media campaign to win, and social media done right includes mobile, because mobile allows candidates to loop in supporters in the moment and stay in touch and respond in real time. Mobile makes social networking more important," Enderle caid.

The candidates probably need content that fits the smaller screen, or that's an audience they are not speaking to," he said, noting that "a few hundred thousand people could swing a state." Experts said that the major political parties should be expected to offer candidate-focused apps via Apple's App Store and the Android Market at least by the time the two nominees are chosen bits summer.

Today, Apple's App Store lists hundreds of news and socialmedia-related apps, but a recent search found none related directly to a single presidential candidate.

There are mobile apps designed to help sports fans follow the NCA/S annual college baskethall tournament, "so why not have similar apps to track campaigness" asked Bill Dudley, group director of product management at Sybase;965 and a self-described mobile guru. "There would be lots of mobile engagement for condidates and news organizations to track."

Jack Gold, an analyst at J.Gold Associates, said savvy political organizers need to decide if virtual handshakes in the form of mobile Facebook or Twitter posts are adequate substitutes for meeting and greeting and greeting

voters in person.
"Certainly mobile extends the reach of the candidates [to far more voters] than those they There's a fine line to balance with the candidate's need to stay in touch with supporters and [becoming] a nuisance"

could meet personally," Gold said.

"But at some point," he warned, "does the mobile message just become background chatter? If I get tons of their messages, I'm likely to

just discount all of them and tune out. There's a fine line to balance with the candidate's need to stay in touch with supporters and [becoming]

a nuisance."

Dudley, who compiled
a 2012 mobile industry
forecast predicting that
mobile strategies will be a
"major means of trying to
win votes" in 2012, said he
expects that candidates will

begin using the technology
more actively in coming months.
In fact, he predicts that it won't be
long before campaigns start trying to
outdo one another by seeing who can offer
the coelest features and find the most creative

ways to engage potential supporters.

Come springtime, "you'll see a lot of mobile campaigning" by presidential candidates, Dudley predicted. If not, he added, "they're dead." •



NUMARA





This Cloud is bigger than your imagination...

Introducing the Numara. Cloud family

C	lo	п	Ч
•	·	u	ч





Cloud

Indranil Ganguly

His leadership in healthcare IT is helping to shape public policy.

What's your proudest achievement to date? My kids are my proudest achievement. I have two sons, 16 and 12.

What's your favorite technology? My tablets, I have both an iPad and a Motorola Xoom. I use them for different reasons, but I prefer the Xoom, I like the interface better. I like some of the apps on there better. The iPad is much better as an entertainment device, and the Xoom is better as a work device

How do you spend your free time? Hiking, biking, spending time with my family, which means driving them

RANIL "HEAL" GANGULY, vice president and CIO at CentraState Healthcare System in Freehold, N.J., says he and his colleagues in healthcare IT have an opportunity to make a real difference. CIOs and their teams have a strong grasp of what benefits technology can bring to the medical field, he says, and they should help shape health-

care policy. Ganguly is helping to do just that, serving in leadership roles with various trade associations. The College of Healthcare Information Management Executives (CHIME) last full recognized his contributions by presenting him with its State Advocacy Award. "As the ealthcare industry enters a period of great change, It is more important than ever for CIOs to get engaged in the public policy process," he says. Here he shares more of his thoughts.

What has been the biggest change regarding the role of technology in healthcare during your 12-year tenure as CIO? That technology has been really ingrained in Continued on page 12

121 SERVERS NEXT GENERATION



NEW HARDWARE, NEW CONFIGURATIONS,

Flexibility.

Security

ED IN THE NEW 181 SERVER PORTFOLIO:





M AMD Hexa-Core ■ 6 Cores with up to 3.3 GHz (AMD Turbo Core)

■ 16 GB ECC RAM 3 MONTHS ■ 2 x 1.000 GB

■ 2 x 1,000 GB SATA HDD

■ Intel® Xeon® E3-1220

(Intel® Turbo Boost

Technology 2.0)

III 12 GB FCC RAM

4 Cores with up to 3.4 GHz

SERVER



SERVER



■ Intel® Xeon® E3-1270 # 4 (8 HT) Cores with up to 3.8 GHz (Intel® Turbo Boost Technology 2.0) # 24 GR ECC RAM

■ 2 x 1.500 GB SATA HDD

Control





CIOs are uniquely qualified to step up and educate the legislators, so they don't put our tules that are unattainable.

resources for providing that haven't increased as steeply. So the challenge for us as IT leaders is demand management.

You've talked about the importance of CIOs playing a role in public policy. Why is it important? CIOs shouldn't be just technologists. Most of us aren't. We're businesspeople who first and foremost understand how technology can impact the business. And we're seeing now the federal and state governments' drive to transform healthcare. We know that the large industry players, both private and public, are looking for ways to make healthcare delivery more efficient while trying to improve or maintain effectiveness, and they've pinned a lot of hopes on technology. But I think there's a gap between the theory of technology deployment and the reality of it, and CIOs are uniquely qualified to step up and educate the legislators, so they don't put out rules that are unattainable.

As a CIO and a business executive, what are the key

Continued from page 10 healthcare operations. When I first got here, when there was a network issue, it was an inconvenience. It was an inconvenience, it was an inconvenience, it was a hassle, but everything was manageable. Today it's mission-critical; the technology has become a key driver in supporting the care-delivery process.

How did that change affect your job? It has increased the visibility of the IT function. Now everyone knows who the IT guys are. And that puts some unexpected pressure on the group that you have to find ways to relieve. The other change is demand. Look at the amount of technology we've deployed to our users, our customers. Before, they were simply accepting of the technology, but now the awareness of what technology can do for them has been raised to a point where they're asking for new technologies and enhancements. That's created a demand curve that's very steep, but our

skills yen need? You have to understand the business of healthcare and how technology plays a role. The CIO's team touches the existine buildhourse organization unilsia any other buildhour executive. We're uniquely positioned to have that big picture of the organization. You have to be able to communicate complex concepts in an easy manner. You have to be deployment. To me are some for displays around demonstrating while. Those are some for the key skills as CFOs.

The control of the control of the key skills as CFOs. The control of the key skills as CFOs.

The HTECH Act promotes "the adoption and meaningful use of health information technology." How do you define "meaningful user? Very simplistically, being a meaningful user of technology means flamwering eye to these questions; Are you getting value from the technology? Are you getting the properties of the properties of the properties.

Have you achieved meaningful use in your own organization? We have. We attested for Stage 1 [under the federal HITECH Act in September. I'm waiting for that big check to come. The calculations that were done by our finance folks show that we're entitled to \$2,00 million, approximately.

what were the challenges to achieving that goal in your expanisation? The key challenges were around getting my customers, the end users, to come to the table to participate in implementing the technology. Most viewed it as, "That's IT's responsibility, last tell me when you're done. But they now wallbe if they doo't participate, the system institution of the culture, how they work on a faily basis, no action to the culture, how they work on a faily basis, to maximize use of the technology. That leven the sound in the culture is the technology. That leven the Sometimes changing culture means some people have to do more work than before and not realize the value themselves but see the value to the organization as a whole.

what above achieving meaningful use ownell as an industry! What obtacks remain! A Centra State, we're fortunate to have kieded off a strategy and implemented a los of technology before meaningful use came to be, so that put us in a good position. So I think that's one of the challenge for oben. I think wher also neeing a growing shortage of skilled labor tog the work does. As more and more are pushing to implement technology, the politic globel up, and the state of the contract of the cont

Interview by Computerworld contributing writer
 Mary K. Pratt (marykpratt@verizon.net)

Microsoft



Meetings from a laptop. File sharing in the cloud. Closing deals by videoconference. It all works together.

Introducing Microsoft Office 365. Collaborate in the cloud with Office, Exchange, SharePoint, and Lync videoconferencing. Starting as low as \$10 per user per month. Begin your free trial now at Microsoft.com/office365







PRESTON GRALLA

Microsoft's App Blitz Bodes Well for Its Future

Offering apps for iOS and Android is a way for Microsoft to keep existing customers happy while attracting new ones.

NCE UPON A TIME. Microsoft would rarely release a product on a competitor's platform. Those days may be over. At the end of last year, Microsoft launched a blizzard of apps for iPhones, iPads and Android phones. That's good news for anyone who cares about the company's future.

The app blitz was noteworthy not just for the breadth of the apps Microsoft released, but also because many of them were tied to core Microsoft products or services for which the company expects big growth in the future.

Consider one of Microsoft's most successful big-growth consumer products in the past several years, Xbox 360, which is aimed at an important demographic: gamers. In years past, Microsoft tended to use such a foothold to help promote its own products exclusively and not help any competitors. If Microsoft were still thinking that way. it would release Xbox 360 mobile apps only for Windows Phone 7, in hopes of spurring Xbox 360 users to buy Windows Phone 7 devices.

Surprise! Near the end of 2011, Microsoft released several Xbox 360 mobile apps not just for Windows Phone 7, but for Apple's iOS platform as well. There's My Xbox Live for iOS, which lets gamers use Xhox 260 features on iPads and iPhones. There's also an iOS version of Kinectimals, a game that lets people interact with virtual pets, and Halo Waypoint for iOS, a companion to Microsoft's mesa-selling Halo same.

Microsoft didn't just target gamers, though It also released apps right in its sweet spot of business users and the enterprise market. It released iOS and Android versions of a mobile app for Lync, its unified business communications service, and it updated its existing iOS OneNote app, improving it in a variety of ways, including taking advantage of the iPad's larger screen.

Other releases include a SkyDrive iPhone ann for browsing Microsoft's cloud-based storage service and a tag reader app for the iPhone and Android devices that can scan QR codes and also read NPC signals

All these apps, of course, are also available for Windows Phone 7. But by making them available on competing devices as well, Microsoft has shown that it recognizes that it can't own every customer completely and that people are likely to use multiple platforms for multiple purposes. It's facing up to the cold fact that someone who uses Xbox 360 is more likely to own an iPhone or an Android device than a Windows Phone 7 device simply because

Windows Phone 7 has such a small user base. Releasing iOS and Android agos is a way to keep existing customers happy while attracting new ones. Having an Xbox 360 app for iOS and Android devices becomes a selling point for people considering buying a gaming system.

The same holds true for the enterprise market. Companies will more likely want to use a service like Lync if it supports a wide variety of mobile platforms. And this also holds true in the vast market for Internet-connected consumers. If Microsoft wants SkyDrive to succeed against competitors, it needs to deliver apps for the devices that the greatest number of people use

All of this bodes well for a healthy Microsoft. The days when a company, even a massive one like Microsoft, could go it alone are long gone, and Microsoft seems to recognize that. .

Preston Graffa is a Computerworld com contributing editor and the author of more than 35 books. including How the Internet Works (Que, 2006).





Search, store, and share IT white papers from across the web.

Search thousands of relevant IT white papers.

Organize what you find by tag or project.

Store and access them from your phone or desktop.

Share your briefcase content with colleagues and friends.









Self-Service

Empowering users with do-it-yourself tools is all the rage in IT these days. What could possibly go wrong? By Tracy Mayor



ELF-SERVICE PROCUREMENT. Self-service business intelligence. Self-service recovery. User provisioning in private clouds. It is a wondraws useful for end users today as IT departments roll out tools that hand them the reins to the data and sevices they desire, whether it is instant access to their employee benefits accounts or a deep dive into corporate data stack that were once off-limits.

But all this user empowerment raises a question: Are users up to their new role? To be sure, it's been along time since IT staffers have had to show employees how to use a mouse or check that a desktop PC is plugged in, but there's a big jump between choosing a dental plan from a drop-down menu and applying advanced analytics to large volumes of enterprise data.

Have users really advanced so far that they can roll out their own business intelligence queries or recover from a hard disk failure entirely on thrir own? Yes and no, say IT managers and industry analysts.

COVER STORY

On the one hand, thanks to the boom in smart consumer devices and the ubiquity of the Internet in corporate and personal life, employees at all levels of the organization are more comfortable with technology than ever before.

On the other hand, the U.S. workforc is now a odd years into a decline in experter in science, technology, engineering and mash (the sw-called STEM disciplines), according to the National Remember Council and other declaracion observers. If you include statistical analysis in that skill set, the decline porestically sent the stage for a perfect intom in self-service IT, where we have a support of the stage of the stag

"Some employees — particularly the younger members of the workforce — have an attitude of give me access and I'll figure it out, but there are munaces to data that they may not realize, observes Cindi Howson, founder of business intelligence consultancy BiScorecard. "Some start out quite cavalier in their efforts, then get to a cartain point and have to call for help;"

That said, Howson believes such failures are a necessary part of the process as IT, business units and end users renegotiate the delicate balance of who can do what when it comes to corporate data. After years of tight control by IT, the pendulum is swinging

the other way — "sometimes maybe a little too far the other way," Howson says. Nevertheless, the move toward self-service is only going to accelerate, she and other analysts ay, as IT departments face increasing demand, from the newest hire to the most senior executive, for faster, better access to corporate services and data. "IT cannot keep up. They need to be delivering intel-

ligence faster and in a way that's more aligned with the business than what they've been able to deliver in the past," she says.

To gauge IT's handling of this new breed of customer, Computerworld checked in with three organizations — The Kentucky Community and Technical College System, Intel and Mitre that serve three different user constituencies. Here's a look at how they're handling "End User 2.o."

Kentucky Community and Technical College System: Serving a Diverse Group of End Users

With 16 colleges in 70 locations serving an estimated 130,000 faculty members, staff members, and students, KCTCS supports a hoad swath of users.

KCTCS uses Oracle's PeopleSoft Enterprise Human Capital Management system to roll out self-service components to its various user constituencies, say CTO Paul Carapata. People-Soft's Campus Solutions application allows students to enroll in classes, pay their bills and make scheduling changes. Czarapata sws that module is relatively easy to administer, for two reasons.

First, he says, "the mudents really don't have that many mindlogging choices — they can set if they're admitted to a class and pay for it. Everything else is on Blackboard" — a separate studenesservices sprisen, widely used in higher education, that also incorporates self-service as a cornerstone. Second, "students joint upon paled "serviced quicker than employered of;" he also "better the most part, they're a little more technically savvy and used to dotte thismise for themselves."

This past October, KCTCS rolled out an ambitious online benefits-enrollment system that relied heavily upon self-service

options, a big change for KCTCS employees. "We've got a super-complex Hrs system," Carapata acknowledges. "On the Hrs side, we've got a lot of choices." Change management and communications were critical to achieving a smooth rollout, he says, "especially since we had to reach 68 locations."

In trying to ensure that the benefits system matched the technical expertise of its users as it was being developed, KCTCS did have one advantage: "We do know who our employees are, as opposed to a business trying to attract customers online," Czarapata says.

Another plus Having worked together deady to other projects. If developing generally agreed with HE's assessment of user's shilliers — and when they didn't, they felt free to make suggestions or ask questions. "Other times, IT might not push back as much, but on the project, most of the project have worked with each other for a long time." Campan as sey, IT'll y flow with mice. Campan as sey, IT'll y flow with and establish filters to determine who gets the appropriate data," most of which was done in concert with the lead ystems person from the HE side of the property of the proposition of the property of the proper



His advice to other organizations develpoing self-service systems for users with a wide range of philities is: "Pilor, pilor, pilor." With a small group of test users, KCTCS developers were able to identify! "Jand minnes" and figure out where users needed more or different information, and do so quickly. "A small pilot means a faster feedback cycle," Czaranata toolity out.

Overall, Czarapata finds that end users today tend to have high expectations that internal systems will look and act like the consumer Web applications they're familiar with — an expectation he sometimes has difficulty highling.

"It's not that big a deal for a Twitter or a Yahoo to be constantly tweaked, but monolithic ERP stack don't change as rapidly on the UI side as today's generation espects," the laments. "Were kind of at the mercy of the vendor about how the self-service components work. The functionality to do everything [users] need to do is in there; that those chunker than the'd like."

Intol.

"It's intriguing to stand back and think

about end users," says Diane Bryant, CIO and vice president of Intel. "When you look at tech trends, you see that IT has been deilivering greater and greater capabilities into the hands of employees over the years."

At Intel, self-service initiatives can be roughly categorized into "four big buckets" — traditional helpdesk capabilities, BI, Web publishing and infrastructure as a

Some initiatives, like self-service tech support, are designed for all of Intel's 93,000 employees, who, even at a high-tech company, encompass a wide range of skills. "We roll things out and some will dabble, some will be far more curious and more aggressive in pushing the limits of the tool, and others will shy aware, says Bryante.

"We have a workforce that has a long tenure," she elaborates. "People coming into Intel tend to be more comfortable with these new ways of operating, but there's always a base of employces that isn't comfortable." As the solutions mature and more and more rank and file employees adopt them, 'the rest of the users eventually get wept in," Bryant observes.

Self-service systems that are targeted toward specific groups of employees, on the other hand, tend not to face that kind of adoption lag, Bayant asys. The company's new Web publishing system, for example, allows its approximately 2,000 corporate marketing employees to create and self-publish content for Intel.com.

Likewise, self-service BI solutions give salespeople access to analytics on customer leads and allow senior financial analysts to run what-if scenarios to determine where the company's financials are going to land for the quarter.



"It's easy to wind up with people just drowning in data that they don't know how to make good use of"

JOEL JACOBS, CIO, MITRE

Those types of self-service systems typically take off much more quickly than others, for two reasons, Bryant says. First, the user community is largely made up of high-level, highly skilled employees. And second, the toods themselves have evolved to the point where they can accommodate users' expectations without scriffcine quality.

"BI tools have matured to the level where you don't have to have a master's degree in computer science [to use them]," she says. "They respond to the employee request. You get better access to the data, converted into

formats that users are familiar with."

In her experience, Bryant says, the biggest question around self-service isn't whether users can handle a new system; it's whether business-unit managers can sell the merits of the system effectively enough that users will adoor it willingsly.

"When you tell people you're going from a single point of control to a self-serve model, you are changing an existing business process. Beyant asys. "Senior leaders often underestimate bow hard that it. If can't tell the sales force to start doing things differently. The business side needs to educate them on how this change will make them more productive."

Mitre: Early Adopters, Demanding Users When asked about the technical skill level of

his typical employee, Mitre Vice President and CIO Joel Jacobs deadpans, "Are you familiar with Mitre?"

Indeed, the not-for-profit research lab, originally founded by people who worked at MIT's Lincoln Labs, employs some 7,000 scientists, engineers and support specialists, of whom 65% hold a

master's or doctoral degree.
"There's a high probability of the [end user] being technically oriented in computer science or engineering," Jacobs says. "Their ability to cope is pretty high."

Mitre was among the earliest organizations to embrace the Interiest and the Web. "We had those fumny characters" meaning email addresses — "on the bottom of our business cards ao years ago," Jacobs recalls. Launched in the early 1990s, the organization's intranet, Mitre Information Infrastructure (MII), is well integrated into the corporate culture.

In two decades, MII has evolved to include a high level of selfservice access to a range of corporate tools, including time cards, travel expense reports, and almost all HR changes and transactions except those that are required by law to be on paper.

An upgrade in early 2010 now allows Mitre to push role-based content out to users via a "my actions" gadget that resides on user's personalized home pages. One user's actions may include completing a time-off request or installing a security spatch to her computer; another's may prompt him to authorize the public release of a particular document or approve a procurement request.

Beyond that, when developing other self-service applications,

COVER STORY

Mitre has a fairly well-established process that takes place between IT and an identified data owner within a business unit to determine which employees get access to what data. Even then, it can take a few tries to eet it right.

trees to get a rigin.

"Often, the first request is for some raw feed, but it's easy to wind up with people but drowning in data that they don't know how to make good use of." Borobs explains. Rather than having the business side tell IT what data they think they need, be referent that they frame their request in terms of what decisions they need to make. Instead of single T need NYZ data set." If they say, T need to better manage this part of wre cost structure, then we can still them

what data is available and guide them to what will be most useful," Jacobs says.

If there is a downside to having a sophisticated workforce,

If there is a downside to having a sophisticated workforce, Jacobs says, it's that users can be intolerant of poor user interfaces or unnecessarily clumsy processes — some of which can't

5 Tips for Successful Self-service IT

Now do you do self-service if right? Tech managers and analysts say the goal is to empower users without overwhelming them — and without putting corporate data at risk. Nore are their specific tipes

1 Retain tight control over corporate data. User access to that data is important, but a user's need for data should never take precedence over security, privacy or regulatory compliance concerns.

2 Know the people you're designing for, Users with different roles and technical skills may need different types of tools.

3 Ruther than asking business users what data they think they need, ask them what decisions they need to make or what tasks they need to accomplish.

4 Consider bringing in a business analyst during the project's planning stages to facilitate communication between business waves and IT

5 Test with a small group of users to quickly identify and address trouble spots.

Change management is crucial to a successful rollout of self-service bods. Line-of-basiness leaders – not IT – should explain to users how the tools will benefit them.

- TRACY MAYOR

"Monolithic ERP stacks don't change as rapidly on the UI side as today's generation expects."

PAUL CZARAPATA, CTO, KENTUCKY CTCS

be avoided when adapting off-the-shelf software. When IT designs a new system at Mitre, "our expectation isn't that juers] can't figure things out — our user population can figure things out — it's that they don't want to spend their time navigating obstacks," Jacobs says.

Hurdles to Keep in Mind

IT managers and others agree that successful self-service implementations come from equal partnerships between IT and the line of business that's requesting access to data or services. That's not always easy, of course, but keeping a couple of burdles in mind during the

planning stages can help.

The biggest challenge for IT is to keep tight control over the integrity of corporate data, while still giving appropriate users enough access to allow them to actually accomplish their goals,

says Forrester Research analyst Boris Evelson.

The best scenario is a win-win when you divide the analytic:
application stack into multiple components — data foundations,
integration, quality assurance, persistence, warehousing. IT still
has to be responsible for those, and for security and robust disaster recovery. Evelson says. "Iff asw," We are in full control of

that — If they can say the data resides in one logical place that's security integrated — then sure, let users have a field day." IT about also have a fully maunced understanding of eastly which were community it is being adea to ever, any BlScore card's Hownon, who recognizes that certain types off II tools best serve different pero dissers. A power use, for example, could probably handle an advanced data studying program list. McCount! PowerPrev. while an account owner might need a distribution of the country of the country of the country of the an interactive report that lets him tweak and re-chart certain an interactive report that lets him tweak and re-chart certain

Matthew Ripaldi, a senior vice president at IT staffing and recruiting services firm Modis, says he's confident that today's workers are able to handle self-service analytics. He's more concerned that not every IT employee has the softer skills necessary to sufficiently define the scope of a project.

"Requirements-gathering requires good listening skills. You need someone who can say. "What do you want this system to do? What analysis are you trying to accomplish?" and then translate that into a tech solution." Ripaldi says.

In cases where the IT staffers assigned to the project are more "black-and-white tech people," Ripaldi recommends bringing in a business analyst — from the business side or as an outside consultant — to ensure communication stays on track.

In the end, Forrester's Evelson finds it useful to put the selfservice movement in context. Yes, self-service access to enterprise data gives users power and flexibility they haven't had before, and yes, that requires a higher level of control on IT's part, he says. But by the same token, these new systems are part of a trend

But to the state tuners, tures in respect to a vision as the personal.

"Business users have been using spreadsheets since the day they were invented. If you think about it, [Microsoft] Excel is still the No. 1BI tool out there." •



Grow Your Data Center With COLOCATION

It's quicker and a lot less expensive than building your own facility. BY JOHN EDWARDS

BURCH knew the moment had arrived. Two of his data center's key services - availability and business continuity - needed fast nd dramatic improvement. Design and location limitations meant that his company's existing data center couldn't be upgraded to the levels sary to provide the improvements in functionality ad performance that he required.

OUTSOURCING

So Burch, senior worldwide infrastructure director of Kemet Electronics, a capacitor manufacturer headquartered in Simpsonville, S.C., decided it was time for his data center to solit.

Even in today's challenging economy, enterprises are facing rising internal and external demands for IT services. When an existing data center can no longer handle an organization's IT burden, or when it becomes necessary to establish a secondary site to provide enhanced disaster recovery capabilities or regional network support, an important decision point has been reached.

For a number of enterprises, the obvious solution is to add another data center, and for many of those it means partnering with a colocation service provider instead of building a new facility of their own

If you're considering colocation — or colo, for short — it's essential to do your homework, experts say (see "Colo 101," page 23). "You absolutely need to do the buyvs.-build analysis," says Jeff Paschke, an analyst at Tierr Research. But having said that, he suggests that "buy" may often be the pest choice. "I am a former enterprise data center manager, and from what I know now, more should be using [colocation facilities]," be says.

Financial considerations may play the biggest role in colocation decisions. "Do you want to go to your board

Once you see you're beginning to run out of space, run out of server capacity, [or] when you're looking to add or upgrade an application, that's when you begin to look outside.

LYNDA STADTMUELLER, DATA CENTER ANALYST, FROST & SULLIVAN

and ask for \$90 million in capex [capital expenditures] for another data center?" Paschke asks. "The alternative is to go to a provider and use open [operating expenses] and not have to spend money unfront."

Given the massive investments of time and money required to build a traditional data center, "fewer organizations are deciding to build their own satellite data centers," says Lynda Stadtmueller, a data center analyst at technology research company Frost & Sullivan.

In a trend that's especially prevalent among operations that use time-sensitive applications that require a local presence, more and more organizations are leasing space from a colo or hosting provider rather than building and managing their own data centers, she explains.

Outer Limits

Most organizations begin thinking about adding a data center as soon as their existing facility starts maxing out its physical space or support resources, Stadtmueller says. "Once you see you're beginning to run out of space, run out of server capacity, for when you're looking to add or upgrade an application, that's when you begin to look outside."

Sometimes the push comes in the form of a husiness need - a new initiative that, for instance, requires a lot of extra computing capacity, or enough to force your existing data center to use a lot of extra electricity. Power is usually the gating factor in many older data centers: Enterprises tend to run out of power options long before they run out of space.

For many organizations, the idea of building a second site often arises from a desire to create. enhance or cut the cost of a business continuity strategy. "With our new site, we really wanted to improve on the frecoveryl time from any kind of failure." Burch says. Kemet also wanted to get out of a costly relationship with a disaster recovery services provider, he adds.

Licking Latency

Another motivation for creating a new data center is to boost system responsiveness for employees and customers in remote locales. Organizations running latency-sensitive network applications - those that power retail and travel websites or financial services, videoconferencing and content distribution systems, for example - usually like to place their applications as close to end users as possible to improve response times. By splitting a data center into two or more sites an organization can more efficiently serve people scattered across a wide area - even if they're on multiple

Dayton, Ohio-based LexisNexis, known for its legal research and workflow services, decided in 2009 to establish a colo data center in Scottsdale, Ariz., to better serve customers from a location that's relatively immune to storms, earthquakes and other natural calamities. "We wanted something that was in the western region of the U.S.," says Terry Williams, the company's vice president of managed technology services. "Location was a huge part of our decision." The company already had a data center in Dayton.

Not surprisingly, network availability and performance were essential considerations for LexisNexis as it went about choosing the new site. "The key for us is network connectivity," Williams says. "That was something that couldn't be compromised on."

LexisNexis is hardly the only organization that wants to set up data centers closer to end users for better service, says Darin Stahl, a data center analyst at Info-Tech Research Group. "There's a definite move toward decentralization, and that's helping enterprises that want to open additional data centers," he says.

Williams says that turning to a colocation provider - Phoenix-based IO Data Centers, in his case - didn't require LexisNexis to compromise on any services or amenities. "We expected all of the normal things that a high-tier data center would have in terms of backup

Colo 101

B 10% analysis count, there is an extra series of the count of the cou

Some colo providers specialize by going after small and midsize businesses, financial services firms or other categories of customers.

There are two general types of colocation providers: wholesale and retail. Wholesale colocation providers maintain large facilities – big enough to han-



for example. Except for the power and cooling infrastructure, it's essentially empty space. The customer, or tanant, does the work of rolling in the servers and racks, cabling up the year and making sure it all works.

On the retail side, spaces are usually smaller—down to "caper" that held individual servers, for example—and the vandors offer more setup help, for a price, in general, says leff Pracchie, an analyst at Tier! Research, you can expect to pay more for retail colocation

also, be on the looksuit for the everpresent speal. Furth Stati, as manypresent speal. Furth Stati, as manytrated heararch Group, says manywater the venders are schowing "straight" and and will provide only managed services, where the venders service and summaries of the continuers opposed on the continuers of the continuers of "at least" 25%, be explaint. The bettern line is this table used to look the coles partners that's going to the vene water to used — as more than

- JOHANNA AMBROSIO

power, generators and all of those things, as well as network connectivity," he says.

For his part, Burch feels that using a colocation service — Kernet Electronic choose Columbia, S.C. shared Immedion — allowed a faster, less contry deployment without sacrificing convenience or functionality. We were able to get everything set up within a two-month period, and that included the building out of office space, even converting more office space into raised-floor data center space, which is pretty amazing."

Finding a suitable colocation provider can be just as challenging as scouting a site for a traditional data center. 'We looked at taking a building and converting it ourselves,' Williams says. After deciding that overhailing a stand-alone building wouldn't be cost-effective, LexistVeris started looking for a colocation provider. 'I would say that we probably spent also.

months searching for a site, and we probably looked at no less than 30 different locations and providers — it was a very extensive search." be says.

Space at a Premium

Species as a Previous and the tight in some location, or expect to pay a premium in those arms. The first or expect to pay a premium in those arms. The first resulting credit crusch put the kilosho devoted and the species of the species of the species of the control capacity build-one. Many entrepties put their own date center construction plans no hold, and colos reinted in their expension activity as well. So nowadays organizations constroined pursuing to a cito may find that the wedges don't have as much data center space as they need.

Of course, the market for data center space varies from location to location. A recent Wall Street Journal article, for instance, talked about an oversupply in the

OUTSOURCING

New York-New Jersey area. In general, though, many analysts say there's an undersupply of colo space in key locations

One reason this is important is because some shops out to have their second data center near their main facility so they can stay close to their gear. Paschke calls the people who run these shops "server huggers" - IT executives who want to be able to reach out and touch their servers, even though the goal in most data centers is to automate much, if not all, of the systems management. If your main office is in a high-demand area, it might be difficult to find a nearby colo facility

More factors to think about when going colo include deciding upfront what you're willing to pay for. Some customers need mega-bandwidth for instant response times and require stringent service-level agreements, and some choose to have telecommunications links to several providers for backup purposes, in case one telecom vendor goes black. Others aren't so concerned. "Some people don't care; milliseconds don't mean that much to them," says Jonathan Hjembo, senior analyst at TeleGeography Research. "Customers just need a ridiculous amount of different things," be notes, adding that such diversity is pushing the market forward.

The key for us is network connectivity. That was something that couldn't be compromised on.

TERRY WILLIAMS, VICE PRESIDENT OF MANAGED TECHNOLOGY SERVICES, EYICHEYIS

> Other considerations include security - both physical and virtual - and backup infrastructure, including power, cooling, fire suppression and the like. Customers also need to discuss their future needs with their would-be colo partners, to make sure the vendors will have enough space for the customer's anticipated needs for the next few years. And be sure to do a financial analysis.

Staffing Issues

When somebody mentions "colocation," a lot of IT staffers hear "outsourcing" - and naturally begin to worry about losing their jobs or influence, analysts say. "People are resistant to change," says Tierr's Paschke.

If you choose to go the colo route, your staff will probably need some time to get comfortable with the idea. Info-Tech's Stahl suggests an evolutionary approach in which you begin by using a colo facility as a backup data center and later use it to handle more critical, first-tier kinds of hardware, storage and applications. "Once that happens, customers start to wonder whether it's the best use of a server admin to go to the colo facility and mess around in the cage for a day," he says. At that point, the company may be ready to consider managed services for some of its 1T functions.

A staffing issue that's often neglected until the last minute is the need to hire qualified people to work at a secondary data center, says LexisNexis' Williams. Sometimes enterprises opt to use the colo vendor's on-site experts, but other times they simply lease space within the facility and staff it themselves

"Obviously, you're going to do local hiring," Williams says. But he notes that a remote data center has different staffing needs than a primary site. Since secondary data centers generally don't have as many management and administrative jobs as main sites, hiring tends to focus on technical individuals who can easily move between multiple tasks. "You want a small staff that can actually do a number of different things,"

Still Williams notes that LexisNexis had no shortage of Dayton data center staff members volunteering to transfer to the new location. "If it's in a nice location like Scottsdale, everybody is raising their hand to move out there," he says.

For most enterprises, adding a colocated data center is usually a significantly easier task than creating a primary site from scratch. In most cases, established platforms and practices can be replicated fairly painlessly at the new location. Kemet used its main data

center as a staging area for the new site. "To ease the transition, we actually built all the new equipment in our primary data center," Burch says. "We synchronized all the data that was going to be replicated at the new site and conducted some tests to make sure everything was going to work the way it was supposed to." The equipment was then transported to the new data center. "We then simply turned it on and just let it catch up on what it had missed in the eight hours it had been in transit," Burch says

To complete the job, the Kemet team conducted a series of tests to make sure that the new business continuity system would work flawlessly. "Once we had confirmed that, we basically declared it in production and then, a month later, we let our traditional [disaster] recovery contract expire," Burch says.

Planning carefully and paying close attention to detail are vital to a successful deployment, Burch says. "Most of all, look carefully at any contracts that might be involved with the new data center, particularly any disaster recovery or hosting contracts," he advises.

LexisNexis' Williams says that finding a competent and trustworthy colocation partner is essential to the success of a secondary data center, since the provider will be responsible for delivering essential infrastructure services, including power and cooling. "The key thing," he says, "is to find a partner that can provide what I would consider to be that intimate level of service - meaning that you feel that you're the only client there." +

Edwards is a technology writer in the Phoenix area. You can contact him at iedwards@gojohnedwards.com. Additional reporting by Computerworld's Johanna Ambroslo.





3) Before: Faced with the prospect of taking medication for his weight-related aliments, Frederick Curriet, a computer specianist a Kaiser Permanente, chose diet and exercise instead. Now: Curiel sports a 50-pounds-lighter physique

IT Staffers Shed 1,500 Pounds

Kaiser Permanente's 'CIO Challenge' pumps up IT morale while promoting healthier lifestyles. By Stacy Collett ITH MIS 50th birthday looming at the end of July in 2010, Frederick Curiel knew he had to lose weight. But as with many IT professionals, the demands of his job had put diet and exercise on back burner.

"My lab [results] were 'frightening,' according to my doctor,' recalls Curiel, a computer specialist in the 'fleasanton, Calif., office of health maintenance organization Kaiter Fernamente. "She wanted me to go on medications." Curiel preferred to try diet and exercise, but he steps," I tried a Junton'd things and had lost some weight, but I reached a plateau."

Fortunately for Curiel, he was about to get a little help from his IT co-workers.

At about the same time that Curiel needed a nudge, Philip Fasano, executive vice president and CIO of Kaiser Permanente, was looking for a little motivation of his own. Coming off an ankle injury, Fasano needed incentive to get back in shape.

Kaiser Permanente had already begun a companywide eightweek physical activity program and cross-country virtual journey called "Thirte Across America," which ran from May to June 2010. Employees and teams were encouraged to track their physical activity via a Web portal. Minutes of esercise were converted into miles on a cross-country journey.

But Fasano decided to take the program a step further by going

CARFERS

public on the company's IdeaBook internal social network with his current weight and his goal of losing at least five pounds. He laur-hed the "5x500 CtO Challenge" and invited the rest of the

IT staff to join him in his quest.

Fasano posted weekly blogs to update his progress and receive feedback. Soon, other participants began blogging questions, celebrating their own weight-loss milestones and posting notes of encouragement. The CIO Challenge became one of the most active groups on IdeaBook. By the end of the seven-week program, 400 IT employees collectively lost some 1,500 pounds. Curiel broke through his weight-loss slump, eventually dropping a total of 50 pounds.

What's more, Fasano quickly learned that the challenge's benefits to the IT department outweighed the pounds lost.

"It clearly became an opportunity for us to engage in some thing in common regardless of place in the IT organization." Fasano says. "It also created a community of interest where we

had a kinship and a partnership." Moreover, people started asking Fasano how his ankle was recovering. "It allowed me to communicate directly with our IT employees in a way that I hadn't before — in such a direct anner." he says.

Following the success of the first program, Kaiser Permanen last fall launched a 10-week program with a focus on walking. And Fasano once again put out a call to his team to join him in a special IT challenge. This time, the goal was for each participant to walk 10 miles per week, and 341 IT staffers signed on for the challenge. At the close of the program, the team had collectively covered some 27,000 miles; that's a greater distance than the circumference of the Earth.

Healthy Dividends

For Betty Pizarro, lead administrative assistant at Kaiser Permanente's innovation and technology department in Oakland, Calif., the original weight-loss challenge sparked new office friendships and a healthier lifestyle.

She was impressed that Fasano publicly disclosed his beight and weight, and the amount of weight he needed to lose. "I thought, if this man can do this. I can do this. So I took on the challenge," Pizarro recalls.

She found a walking buddy in the IT department, and they began walking outside during their lunch break. "It's hard to lose weight and be healthy by yourself, so I attached myself to positive people," she says. Pizarro credits her buddy for "pulling mc out of my cube" ys when she didn't want to leave her desk. Every other week, Pizarro walked with her work

tor in the IT department. Pizarro lost over 25 pounds. "I was on two blood pres medications. I'm now on one, and I am as cute as hell!" she says

Though Pizarro was initially reluctant to share her thoughts, occasionally she mustered the courage to put a note on her blog hen she lost five pounds or went down a dress size. "I did it

when I felt the need to acknowledge to myself that ! hit this mark," the says. Curiel used the company's online total health assessment tool

to set goals and timelines to help him stay on track, in addition to working out every day at the gym. "I modified my diet and started consuming more fruits and vegetables. At my desk, I have fruit, vegetables and nuts. I stopped going out to lunch and started eating what I brought in," Curiel says

He's been able to keep the weight off, thanks in part to the departmentwide lifestyle change. 'Now I have co-workers who talk about health and fitness just as office chat," he explains.

Tony Pannone, a senior analyst in production services, lost 40 pounds with help from the CIO Challenge. He and his colleagues on the evening shift still support one another's healthy habits. "Six of us on second shift walk every workday at 8:30 p.m. We walk up six flights of stairs to the top of the parking garage and watch the sun set off the mountains," Pannone says. "Also, we all bring healthy snacks - pita chips, hummus and veggies. The whole shift participates."

Not everyone in the IT department needed to lose weight and some who may have needed to shed a few pounds declined to participate. "When you lose weight, you start losing some of your fat friends. So I reached out to people who think healthy. People who were continuing in their old habits would try to offer me an extra piece of cookie," Pizarro says.

But many IT workers took the opportunity to change their sedentary habits. Lydia Keough, an IT business segment partner in Kaiser Permanente's Denver office, felt that she could be in better shape. "I hadn't been working out like I normally do - I had gotten away from it, and I missed it," she says, adding that she didn't think she had enough time to fit exercise back into her

"When the challenge came up, I saw other people doing it and I [realized], gosh, everyone else is out of time, tool she recalls. "It just alerted me that maybe I wasn't really using all the time I

had in the best way to be in shape." She re-evaluated her daily schedule and decided that she could get up an hour earlier to get on the treadmill,

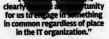
take that walk in the evening, or watch the nightly news while walking on the treadmill after dinner "instead of sitting for another 40 minutes." She posted her tips on the internal blog, as well. Today, Keough is in better shape and

eight pounds lighter. At work, "we have a treadmill on the floor above us. When you're sitting for an hour or more, ou can get on the treadmill

for five minutes and then come back and work," she says. "Wit!exercise, you feel more focused.

The challenge reminded Keough of how good she feels when she exercises regularly and of how much energy that brings her. "I realized that you have control to fit this into your life. That was my ab-ha moment." •

Collett is a Computerworld contributing writer. You can contact her at stcollett@ool.com.



PHILIP FASANO, EXECUTIVE VICE PRESIDENT AND CIO. KAISER PERMANENTE



BYOD Planning Gets a Boost

A key technology to allow for the secure use of personal devices on the network is virtual desktop infrastructure.

RE MAKING big strides toward our CIO's goal of enabling a "bring your own device" (BYOD) policy. For me, it's none

That's because employees are increasingly finding ways to connect their own Macs, tablet PCs and other mobile devices to our internal corporate environment, both from within the office and remotely. In the absence of a policy, it's been a case of anything goes as long as you don't get caught. By embracing this trend and setting up guidelines, we stand a chance of controlling what's connected to

our network and securing our environment. One important technology that will make this work is virtual desktop infrastructure, commonly referred to as VDI - if it's deployed in a secure manner, that is. This week, I met with the VDI project team to make sure that's how it

One of the benefits of allowing only known devices to connect to you network is that you can track a PC to a user and location because you know all the IP addresses, machine names and MAC addresses that are permitted. With VDI, we can expand the pool of devices that can connect to the network because the VDI will identify the user. If, for example, some piece of malware enters the network, we can use our audit and event logs and our security incident and event management tool to track down

We plan to allow VDI access from untrusted environments — for example, a PC at an internet kiosk halfway around

the world. One of my requirements is that we enable a sandbox mode to ensure that there is no possibility of direct

interaction between the

untrusted PC and the VDI environment. This way, malware can't be uploaded to the trusted VDI environment, and intellectual property can't be downloaded to the PC. (Some of these restrictions can be waived if the VDI determines that the remote PC is, in fact, a company asset.) I also want aggressive settings for session timeout and screen lock, to mitigate the problems that arise when forgetful workers walk away from a kiosk without logging out of the VDL



VDI could also be helpful in managing the access of our contingent workforce. This includes vendors, partners, suppliers, distributors, contractors and consultants. Some of these people need access to our infrastructure and applications, but providing them with a VPN client can be a logistical nightmare, since varying levels of access are needed for each engagement. VDI will allow us to set up a "rule of least privilege" (one of my primary security philosophies) for all of our contingent workers. Once again, this will help protect our infrastructure and limit the compromise of our intellectual property.

Security Ground Rules

I also told the project team that we need a login banner notifying users that they have no expectation of privacy. Our legal department has demanded that we force users to click a box indicating that they accept the possibility that the company might monitor their activity.

Another of my requirements is that there be no residual data pertaining to VDI activity on the host PC after a user has logged out. This will be especially important when the PC is untrusted (like one used in an Internet cafe, for example). In addition, the VDI environment must be integrated into Active Directory, so we can easily make the VDI unavailable to former employees and current employees who no longer need access.

Finally, as with all remote connections, any access to the VDI environment must be encrypted and require twofactor authentication. •

This week's journal is written by a real security manager, "Mathias Thurman," whose name and employer have been disguised for obvious reasons. Contact him at mathles_

VDI could also help manage the network access of vendors, partners, contractors and others.





BYOD Planning Gets a Boost

'RE MAKING big strides oward our CIO's goal of enabling a "bring your own device" (BYOD) policy. For me, it's none

That's because employees are increasinely finding ways to connect their own Macs, tablet PCs and other mobile devices to our internal corporate environment, both from within the office and remotely. In the absence of a policy, it's been a case of anything goes as long as

you don't get caught. By embracing this trend and setting up guidelines, we stand a chance of controlling what's connected to our network and securing our environment

One important technology that will make this work is virtual desktop infrastructure, commonly referred to as VDI if it's deployed in a secure manner, that is. This week, I met with the VDI project team to make sure that's how it

happens. One of the benefits of allowing only known devices to connect to your network is that you can track a PC to a user and location because you know all the IP addresses, machine names and MAC addresses that are permitted. With VDL we can expand the pool of devices that can conhect to the network because the VDI will identify the user. If, for example, some piece of malware enters the network, we can use our audit and event logs and our security incident and event management tool to track down the source.

We plan to allow VDI access from untrusted environments — for example a PC at an Internet kiosk halfway around

the world. One of my requirements is that we enable a sandbox mode computerworld.com/ to ensure that there is no possibility of direct interaction between the

untrusted PC and the VDI environment. This way, malware can't be uploaded to the trusted VDI environment, and intellectual property can't be downloaded to the PC. (Some of these restrictions can be waived if the VDI determines that the remote PC is, in fact, a company asset.) I also want aggressive settings for session timeout and screen lock, to mitigate the problems that arise when forgetful workers walk away from a kiosk without logging out of the VDI.

VDI could also help manage the network access of vendors, partners, contractors and others.

blogs/security



VDI could also be helpful in managing the access of our continuent workforce. This includes vendors, partners, suppliers, distributors, contractors and consultants. Some of these people need access to our infrastructure and applications, but providing them with a VPN client can be a logistical nightmare, since varying levels of access are needed for each engagement. VDI will allow us to set up a "rule of least privilege" (one of my primary security philosophies) for all of our contingent workers. Once again, this will help protect our infrastructure and limit the comprumise of our intellectual property.

Security Ground Rules

I also told the project team that we need a login banner notifying users that they have no expectation of privacy. Our legal department has demanded that we force users to click a box indicating that they accept the possibility that the company might monitor their activity

Another of my requirements is that there be no residual data pertaining to VDI activity on the host PC after a user has logged out. This will be especially important when the PC is untrusted (like one used in an Internet cafe, for example). In addition, the VDI environment must be integrated into Active Directury, so we can easily make the VDI unavailable to former employees and current employees who no longer need access.

Finally, as with all remote connections, any access to the VDI environment must be encrypted and require twofactur authentication. •

This week's journal is written by a real security manager, "Mathias Thurman," whose name and employer have been disguised for obvious reasons. Contact him at mathias rhurman@vahoo.com.

Laree



ASK A PREMIER 100 IT LEADER

Dennis The CIO at Inteva

Products answers questions about his hirmo criteria, the skills needed in a cloudbased world and more

What qualities do you look for when hiring for your team? The ability to work with others is a key requirement in today's team-oriented environment. Another is the ability to look at IT as a service and understand how we support the business, even if a person is an infrastructure specialist. Everything and everyone supports the husiness. not just functional analysts.

I've been in law er 10 years, and

pany that is hiring re. Should I give up a sure thing to pursue an IT or project our nesition in this ocn The IT market has certainly picked up in the past year. IT can be a very chal-



at skills will be ears to come? Wo have to look at the

two cloud environments. Public clouds alleviate the need for server support, but you still need strong security and firewall expertise. With a private cloud, you will actually require stronger support skills in the advanced technical systems that make up that environment. This includes experience in virtual-machine support from the server side, storage expertise, networking skills, and security and firewall expertise. You also have to be a good architect.

H-1R FEES TO BOOST II.S. TRAINING

Using money generated by the H-1B visa program, the U.S. government will start providing grants for training unemployed U.S. job seekers. The \$160 million program is being implemented by the Labor Department, which will provide grants to 36 private-public partnerships serving 20 states and the District of Columbia.

Network Pros See Value in Certs

Half of IT workers said in a recent survey that a certification ied to higher pay. Of the 700 people who responded to the survey, which was conducted by Network World and IT management software vendor SolarWinds, three quarters had at least one certification. Respondents, who predominantly work in networking, said certification led to one or more of the following:

The Hottest Scripting Languages

If you want to pump up your resume with mastery of a hot scripting language, take a peek at the roundup that InfoWorld's Peter Wayner compiled. Besides sorting eight languages into "Hot" and "Not Hot" categories, he offers evidence to support his rankings and shares interesting tidbits, such as the fact that Python started to ascend as a direct result of the housing market crash. To find out more about this and other trends in script ing languages, go to infoWorld.com. Meanwhile.

Scala

here's a recap of Wayner's assessments: HOT SCRIPTING HIKEWARM SCRIPTING LANGUAGE LANGUAGES lava Scrint Ruhy Python

NOT-HOT SCRIPTING LANGUAGES ActionScript Per!

120



dtSearch **Instantly Search Terabytes of Text**

The Smart Choice for

Text Retrieval® since 1991

blish (nortable m with Colifer e for Win & MFT England for Linear

Ask about fully-functional evaluations

Highlights hits in a wide range of data, using dtSearch's own file parsers and converters

- · Supports MS Office through 2010 (Word, Excel, PowerPoint, Access), OpenOffice, ZIP, HTML, XML/XSL, PDF and more · Supports Exchange, Outlook, Thunderbird and other
- popular email types, including nested and ZIP attachments Spider supports static and dynamic web data like ASP NET
- MS SharePoint CMS PHP etc · API for SQL-type data, including BLOB data

25+ full-text and fielded data search options

- Federated searching
- Special forensics search options Advanced data classification objects
 - APIs for C++, Java and .NET through 4.x
 - Native 64-bit and 32-bit Win / Linux APIs: .NET Spider API · Content extraction only licenses available

www.dtSearch.com • 1-800-IT-FINDS

IT careers

IT Project Mgr & Network

Attention Law Firms, IT Consultants, Staffing Agencies... Are you frequently placing legal or immigration advertisements?



Place your Labor Certification Ads Here!

Let us help you put together a cost-effective program that will make this time-consuming task a little easier.

Contact Enku Gubale at 800,762,2977

SHARKT/ NK

TRUE TALES OF IT LIFE AS TOLD TO SHARKY



Were the Extensions .xxx?

Among his other duties, this sysadmin plot (fish is responsible for managing backup of his division's Unix worstations. 1" didn't make a point of waithing the backups, but one particular day, include a large number of files with recognization ames and extensions," fish says. "The total size of these files was just over half a gigabyte, quite a bit for that time. Being curious, I determined whose directory was being backed up. I was filends with the Clevel boss and went up to his office."

After a bit of usual small talk, I asked If programmer X was in medical school, 'What?' said the boss with a confused look, I responded, 'I thought he might be studying gynecology, baséd on some files I noticed as the backup process was running." The boss jumped up from his desk. said, 'Wait right here!' and ran from his office. A few minutes later, he returned and said. 'Thank you very much. He's one of my best programmers and I couldn't afford to lose him.' Sure enough, there was about half a gig more space on the file system than before my visit."

You're Welcome

Support poler fish receives an email from one of the money, un, challenging users. The subject line, No connect. The body of the email read next. The body of the email read and that is the error missage." Say fish, "Tays all the email contained. White the email contained, which was the cell program was it? Who knowe? What program was it? Who know? What program was it? Who know? So yet him a repty. On know? So yet what program was it? Who know? So yet white program was it? Who know? A was the program of the program was it? Who know? I was the program of the program was the program of yet in the program of the program of the program was the program of program was the progra I got his reply:
"Working now." I
still don't know
what was wrong.
Probably never
will, either."

What's It Worth To You? This pilot fish is hired as a pro-

a small outfit that designs semiconductors. "Then they found out that I 'knew about computers,' and since we didn't have an IT department, I became the default IT guy for the non-engineers," says fish, As for the engineers, they "used Sun workstations, which I knew little . about. One day, the shipping guy was on vacation, and since that was under the auspires of Production I became the shipping guy for the week. An engineer came running to me saying he was having a trouble with his workstation, "Sorry," I told him. 'I don't really know anything about those workstations.' Can't yo at least look at it? he pleaded, "Well, I could." I answered. "If you don't mind me loudly telling everyone within earshot about how the shipping guy knows more about computers than the engineers." He left to solve the problem by himself."

3 Sharky can't do this alone, so send me your true tale of it life at sharky@computerworld.com. You'll score a sharp Shark shirt

CHECK OUT Sharky's blog, browse the Sharkives and sign up for home delivery at computerworld.com/sharky.

if Luse it.

ERTISERS' INDEX dos a provided as an past service. The publisher at anome any lability for

At Internet

of convenient

Newton Pudard

* Regional Select

BPA Periodical possage paid at ramingham, Maior, and the making offices. Posted order Canadian International

underwarbte caps; 1832, Westerder, Ossari 1832, Kenneter, Ossari 1832, Computer wordt 18; 19 auhöld briker neombhy excess; 18 for the wordt of July Computer wordt 6x; 18 600, 1850,

or presonal rate is granted by Computerworld No. for Strains and other cases registered with the Copyright Chair and Chair and

cope Avenus seascriptors
rates - \$22°C Central \$22°C Central & So. America
- \$25°C Central & So. Central &



S.J. VAUGHAN-NICHOLS

Microsoft Finally Making Good Products — Too Late

Now that Microsoft is finally making good server and desktop OSs. we're moving on.

F YOU'VE read many of my articles over the past 20 years, you may have noticed that I don't care for Microsoft or its products. That isn't because I think open-source software or Apple products are unbeatably great. It's because Microsoft's products are usually awful.

A lot of you are thinking I can't possibly be right about that. After all, you work and play with Windows, Office and other Microsoft offerings every day. You're hardly in the minority. But has Microsoft enjoyed its enviable market position because it produced the best products? Nah.

Microsoft became No. 1 because, in business Bill Gates had the morals of a great white shark in a feeding frenzy. By the time the courts finally slapped Microsoft down in the Netscape case, it was too late. The great monopolist had either killed off or bought out its competition.

To quote Thomas Penfield Jackson, the presiding judge in U.S. v. Microsoft, "Most harmful of all is the message that Microsoft's actions have conveyed to every enterprise with the potential to innovate in the computer industry. Through its conduct toward Netscape, IBM, Compaq, Intel, and others, Microsoft has demonstrated that it will use its prodigious market power and immense profits to harm any firm that insists on pursuing initiatives that could intensify competition against one of Microsoft's core products. Microsoft's past success in hurting such companies and stifling innovation deters investment in technologies and businesses that exhibit the potential to threaten Microsoft. The ultimate result is that some innovations that would truly benefit consumers never occur for the sole reason that they do not coincide with Microsoft's self-interest."

That's why most of you are using Microsoft products today. But just as Microsoft stomped out its commercial competition, open-source systems. such as Linux and Firefox, began appearing, and

Microsoft's usual tactics couldn't touch them. At about the same time. Steve lobs returned to Apple and refocused what was then a wreck of a company on creating "insanely great" products. Against Jobs' high-end, high-price approach, Microsoft was again unable to compete

At first, Microsoft didn't really care. Even though it lost its antitrust case, it got away with little more than a hand slap. Life was good.

Until, that is, Microsoft started noticing that open source and Apple were slowly eating away at its markets. Microsoft, now an old, fat dinosaur, finally had to start making good, competitive products. It took ages, but today, Windows Server 2008 R2 is a great server operating system, Windows 7 is an excellent desktop operating system and even Internet Explorer q is a reasonable Web browser

Too bad it's too late. Now that Microsoft is finally making good server and desktop operating systems and programs, we're moving to the cloud, smartphones and tablets. Yes, Microsoft has Azure for the cloud, but it's only one of many cloud platforms, and there's nothing compelling about it. As for the mobile device market, Windows 8 will never make it out in time to compete with the open-source-based Android and Apple's iOS. It's a dead OS walking.

Don't get me wrong. Microsoft won't drop dead tomorrow. But like the fat-client desktop, it's in decline. I won't miss it when it's finally gone. •

writing about technology and the business of technology since CP/M-80 was cutting-edge and 300bps was a fast Internet connection and we liked it! He can be reached at sivn@vna1.com.

Steven J. Vaughar

Michols has been

Prestos Graffa sees Microsoft's recent app blitz as a sign that the company is learning to compete. Page 14

Discussion Underway

(want in?)

The Compute revold Linke different early community for all things iff he call made a small document at eartopic waters IT to be long concermanageness in applicable to petition and computer at the contains a section 11 to a 150 at a 150 at a

Apply to a member of pit of a con-

COMPUTERWORLD

on Linked in

"This deluge of data isn't stopping. But with Dell's storage solutions, our system was able to absorb it."

Steven Smith CIO AccuWeather, Inc.





1 1 1 1 1 1 1 1 1 1

Do more with Efficient IT

See how we halp receiving the manning the incredible data and the second of the with providing restrict the control of the con



the benefit to the